

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROYF02
Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421
Instrument ID: MSVOA_Y Calibration Date(s): 02/25/2025 02/25/2025
Heated Purge: (Y/N) Y Calibration Time(s): 12:40 16:49
GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VY021309.D			RRF010 = VY021310.D		RRF020 = VY021311.D			
	RRF050 = VY021312.D			RRF150 = VY021314.D		RRF100 = VY021316.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	RRF	% RSD	
Dichlorodifluoromethane	0.510	0.484	0.431	0.493	0.480	0.447	0.474	6.2	
Chloromethane	0.709	0.628	0.566	0.602	0.597	0.570	0.612	8.6	
Vinyl Chloride	0.648	0.591	0.554	0.627	0.606	0.580	0.601	5.6	
Bromomethane	0.505	0.414	0.361	0.387	0.371	0.359	0.399	13.9	
Chloroethane	0.414	0.365	0.347	0.390	0.365	0.355	0.373	6.7	
Trichlorofluoromethane	0.976	0.915	0.838	0.936	0.909	0.870	0.908	5.3	
1,1,2-Trichlorotrifluoroethane	0.546	0.529	0.491	0.537	0.541	0.508	0.525	4.1	
1,1-Dichloroethene	0.545	0.489	0.462	0.515	0.518	0.490	0.503	5.7	
Acetone	0.122	0.102	0.094	0.128	0.104	0.103	0.109	11.9	
Carbon Disulfide	1.800	1.652	1.540	1.734	1.678	1.620	1.671	5.4	
Methyl tert-butyl Ether	1.312	1.268	1.267	1.410	1.410	1.307	1.329	4.9	
Methyl Acetate	0.285	0.249	0.259	0.276	0.276	0.250	0.266	5.7	
Methylene Chloride	0.733	0.598	0.539	0.585	0.547	0.529	0.588	12.8	
trans-1,2-Dichloroethene	0.589	0.536	0.507	0.573	0.570	0.547	0.554	5.4	
1,1-Dichloroethane	1.101	1.032	0.961	1.083	1.058	1.007	1.040	4.9	
Cyclohexane	1.182	1.025	0.910	0.989	0.971	0.923	1.000	9.9	
2-Butanone	0.162	0.155	0.156	0.183	0.171	0.159	0.164	6.5	
Carbon Tetrachloride	0.567	0.562	0.509	0.581	0.567	0.535	0.554	4.8	
cis-1,2-Dichloroethene	0.649	0.610	0.588	0.665	0.656	0.626	0.632	4.7	
Bromochloromethane	0.525	0.442	0.438	0.454	0.464	0.439	0.460	7.2	
Chloroform	1.128	1.046	0.977	1.095	1.062	1.017	1.054	5.1	
1,1,1-Trichloroethane	1.020	0.956	0.889	0.986	0.979	0.927	0.960	4.8	
Methylcyclohexane	0.597	0.613	0.584	0.662	0.663	0.618	0.623	5.3	
Benzene	1.515	1.445	1.359	1.533	1.472	1.409	1.456	4.5	
1,2-Dichloroethane	0.422	0.417	0.393	0.434	0.419	0.394	0.413	3.9	
Trichloroethene	0.375	0.360	0.341	0.382	0.375	0.354	0.364	4.3	
1,2-Dichloropropane	0.360	0.350	0.329	0.371	0.357	0.336	0.350	4.5	
Bromodichloromethane	0.519	0.503	0.477	0.541	0.528	0.495	0.511	4.5	
4-Methyl-2-Pentanone	0.220	0.227	0.239	0.267	0.264	0.238	0.243	7.9	
Toluene	0.887	0.888	0.852	0.965	0.936	0.897	0.904	4.4	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	RRF	% RSD	
t-1,3-Dichloropropene	0.438	0.436	0.434	0.515	0.509	0.474	0.468	8	
cis-1,3-Dichloropropene	0.541	0.526	0.528	0.591	0.581	0.546	0.552	5	
1,1,2-Trichloroethane	0.250	0.251	0.238	0.267	0.254	0.237	0.249	4.4	
2-Hexanone	0.133	0.146	0.155	0.183	0.178	0.162	0.159	11.9	
Dibromochloromethane	0.340	0.325	0.322	0.368	0.352	0.332	0.340	5.2	
1,2-Dibromoethane	0.234	0.231	0.226	0.254	0.245	0.227	0.236	4.7	
Tetrachloroethene	0.405	0.380	0.351	0.389	0.386	0.355	0.378	5.5	
Chlorobenzene	1.171	1.111	1.039	1.176	1.159	1.078	1.122	5	
Ethyl Benzene	1.938	1.941	1.826	2.130	2.115	1.979	1.988	5.8	
m/p-Xylenes	0.735	0.738	0.696	0.802	0.783	0.733	0.748	5.1	
o-Xylene	0.689	0.675	0.648	0.758	0.739	0.694	0.701	5.9	
Styrene	1.081	1.128	1.091	1.277	1.257	1.159	1.166	7.2	
Bromoform	0.221	0.221	0.211	0.246	0.236	0.214	0.225	5.9	
Isopropylbenzene	3.744	3.605	3.437	3.976	4.009	3.783	3.759	5.8	
1,1,2,2-Tetrachloroethane	0.700	0.649	0.621	0.697	0.689	0.624	0.663	5.5	
1,3-Dichlorobenzene	1.812	1.729	1.598	1.792	1.777	1.668	1.730	4.8	
1,4-Dichlorobenzene	1.825	1.710	1.593	1.751	1.744	1.629	1.709	5	
1,2-Dichlorobenzene	1.599	1.499	1.408	1.575	1.564	1.446	1.515	5.1	
1,2-Dibromo-3-Chloropropane	0.103	0.097	0.099	0.113	0.115	0.102	0.105	7.2	
1,2,4-Trichlorobenzene	0.906	0.848	0.822	0.968	1.053	0.950	0.925	9.2	
1,2,3-Trichlorobenzene	0.742	0.719	0.698	0.824	0.896	0.809	0.781	9.6	
1,2-Dichloroethane-d4	0.681	0.510	0.548	0.551	0.566	0.547	0.567	10.3	
Dibromofluoromethane	0.370	0.299	0.317	0.325	0.334	0.322	0.328	7.2	
Toluene-d8	1.420	1.158	1.230	1.251	1.290	1.253	1.267	6.8	
4-Bromofluorobenzene	0.490	0.387	0.404	0.423	0.435	0.420	0.426	8.2	

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